

SEQUENCE LISTING

<110> Rothman, James
Mayhew, Mark
Hoe, Mee

<120> KDEL RECEPTOR INHIBITORS

<130> 31488

<160> 36

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 46

<212> PRT

<213> rat

<400> 1

Gly	Asp	Leu	Ala	Pro	Gln	Met	Leu	Arg	Glu	Leu	Gln	Glu	Thr	Asn	Ala
1				5					10					15	
Ala	Leu	Gln	Asp	Val	Arg	Glu	Leu	Leu	Arg	Gln	Gln	Val	Lys	Glu	Ile
			20					25					30		
Thr	Phe	Leu	Lys	Asn	Thr	Val	Met	Glu	Cys	Asp	Ala	Cys	Gly		
		35					40					45			

<210> 2

<211> 46

<212> PRT

<213> human

<400> 2

Ser	Asp	Leu	Gly	Pro	Gln	Met	Leu	Arg	Glu	Leu	Gln	Glu	Thr	Asn	Ala
1				5					10					15	
Ala	Leu	Gln	Asp	Val	Arg	Asp	Trp	Leu	Arg	Gln	Gln	Val	Arg	Glu	Ile
			20					25					30		
Thr	Phe	Leu	Lys	Asn	Thr	Val	Met	Glu	Cys	Asp	Ala	Cys	Gly		
		35					40					45			

<210> 3

<211> 46

<212> PRT

<213> mouse

<400> 3

Gly	Glu	Gln	Thr	Lys	Ala	Leu	Val	Thr	Gln	Leu	Thr	Leu	Phe	Asn	Gln
1				5					10					15	
Ile	Leu	Val	Glu	Leu	Arg	Asp	Asp	Ile	Arg	Asp	Gln	Val	Lys	Glu	Met

20 25 30
 Ser Leu Ile Arg Asn Thr Ile Met Glu Cys Gln Val Cys Gly
 35 40 45

<210> 4
 <211> 46
 <212> PRT
 <213> human

<400> 4
 Gly Glu Gln Thr Lys Ala Leu Val Thr Gln Leu Thr Leu Phe Asn Gln
 1 5 10 15
 Ile Leu Val Glu Leu Arg Asp Asp Ile Arg Asp Gln Val Lys Glu Met
 20 25 30
 Ser Leu Ile Arg Asn Thr Ile Met Glu Cys Gln Val Cys Gly
 35 40 45

<210> 5
 <211> 46
 <212> PRT
 <213> human

<400> 5
 Gly Asp Phe Asn Arg Gln Phe Leu Gly Gln Met Thr Gln Leu Asn Gln
 1 5 10 15
 Leu Leu Gly Glu Val Lys Asp Leu Leu Arg Gln Gln Val Lys Glu Thr
 20 25 30
 Ser Phe Leu Arg Asn Thr Ile Ala Glu Cys Gln Ala Cys Gly
 35 40 45

<210> 6
 <211> 46
 <212> PRT
 <213> xenopus laevis

<400> 6
 Gly Asp Val Ser Arg Gln Leu Ile Gly Gln Ile Thr Gln Met Asn Gln
 1 5 10 15
 Met Leu Gly Glu Leu Arg Asp Val Met Arg Gln Gln Val Lys Glu Thr
 20 25 30
 Met Phe Leu Arg Asn Thr Ile Ala Glu Cys Gln Ala Cys Gly
 35 40 45

<210> 7
 <211> 27
 <212> PRT
 <213> human

<400> 7
 Gln Lys Leu Gln Asn Leu Phe Ile Asn Phe Cys Leu Ile Leu Ile Cys
 1 5 10 15

30
 29

Leu Leu Leu Ile Cys Ile Ile Val Met Leu Leu
20 25

<210> 8
<211> 9
<212> PRT
<213> human papilloma virus

<400> 8
Leu Leu Leu Gly Thr Leu Asn Ile Val
1 5

<210> 9
<211> 9
<212> PRT
<213> human papilloma virus

<400> 9
Leu Leu Met Gly Thr Leu Gly Ile Val
1 5

<210> 10
<211> 9
<212> PRT
<213> human papilloma virus

<400> 10
Thr Leu Gln Asp Ile Val Leu His Leu
1 5

<210> 11
<211> 9
<212> PRT
<213> human papilloma virus

<400> 11
Gly Leu His Cys Tyr Glu Gln Leu Val
1 5

<210> 12
<211> 9
<212> PRT
<213> human papilloma virus

<400> 12
Pro Leu Lys Gln His Phe Gln Ile Val
1 5

<210> 13
<211> 115
<212> PRT

<213> Artificial Sequence

<220>

<223> chimeric rat comp

<400> 13

Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala
1 5 10 15
Val Arg Ala Glu Gly Ser Ser Leu Gly Gly Asp Leu Ala Pro Gln Met
20 25 30
Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln Asp Val Arg Glu
35 40 45
Leu Leu Arg Gln Gln Val Lys Glu Ile Thr Phe Leu Lys Asn Thr Val
50 55 60
Met Glu Cys Asp Ala Cys Gly Met Gln Pro Ala Arg Thr Pro Gly Thr
65 70 75 80
Ser Pro Gln Pro Gln Pro Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro
85 90 95
Lys Pro Gln Pro Lys Pro Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys
100 105 110
Asp Glu Leu
115

<210> 14

<211> 387

<212> DNA

<213> Artificial Sequence

<220>

<223> chimeric rat COMP-KDEL

<400> 14

aagcttacca tgggaaagtt cactgtggtg gcggcggcgt tgctgctgct gggcgcggtg 60
cgggccgagg gatccagcct ggggtggagac ctagcccccac agatgcttcg agaactccag 120
gagactaatg cggcgctgca agacgtgaga gagctcttgc gacagcaggt caaggagatc 180
accttcctga agaatacggg gatggaatgt gacgcttgcg gaatgcagcc cgcacgcacc 240
cccggtacta gtccgcagcc gcagccgaaa ccgcagccgc agccgcagcc gcagccgaaa 300
ccgcagccga aaccggaacc ggaaggtacc ggatcatcag aaaaagatga gttgtaggcg 360
gccgcagaat tccatatgca tctcgag 387

<210> 15

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> chimeric rat COMP-KDEL

<400> 15

Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala
1 5 10 15

[illegible]

```
<210> 16
<211> 387
<212> DNA
<213> Artificial Sequence
```

<400> 16						
aagcttacca	tgggaaagtt	cactgtggtg	gcggcggcgt	tgtctgtct	gggcgcggtg	60
cgggccgagg	gatccagcct	gggtggagac	tgttgccac	agatgcttcg	agaactccag	120
gagactaatg	cggcgctgca	agacgtgaga	gagctcttgc	gacagcaggt	caaggagatc	180
accttcctga	agaatacggg	gatggaatgt	gacgcttgcg	gaatgcagcc	cgcacgcacc	240
cccgttacta	gtccgcagcc	gcagccgaaa	ccgcagccgc	agccgcagcc	gcagccgaaa	300
ccgcagccga	aaccggaacc	ggaaggtacc	ggatcatcag	aaaaagatga	gttgtaggcg	360
qccgcagaat	tccatatgca	tctcgaq				387

```
<220>
<223> chimeric mouse TSP3-KDEL
```

33
32

Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro Glu Pro Glu Gly
 85 90 95
 Thr Gly Ser Ser Glu Lys Asp Glu Leu
 100 105

<210> 18
 <211> 357
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> chimeric mouse TSP3-KDEL

<400> 18
 aagcttacca tgggaaagtt cactgtggtg gcggcggcgt tgctgctgct gggcgcggtg 60
 cgggccgagg gatccagcct ggggtggagac tgttgtaagg cattggtcac ccagctcacc 120
 ctcttcaacc agatcctagt ggagcttcgg gacgacatcc gagaccaggt gaaggaaatg 180
 tcaactcatcc ggaacacccat catggagtgt caggtgtgcg gtccgcagcc gcagccgaaa 240
 ccgcagccgc agccgcagcc gcagccgaaa ccgcagccga aaccggaacc ggaaggtacc 300
 ggatcatcag aaaaagatga gttgtaggcg gccgcagaat tccatatgca tctcgag 357

<210> 19
 <211> 109
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> chimeric mouse TSP3-KDEL

<400> 19
 Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala
 1 5 10 15
 Val Arg Ala Glu Gly Ser Ser Leu Gly Gly Asp Cys Cys Gly Glu Gln
 20 25 30
 Thr Lys Ala Leu Val Thr Gln Leu Thr Leu Phe Asn Gln Ile Leu Val
 35 40 45
 Glu Leu Arg Asp Asp Ile Arg Asp Gln Val Lys Glu Met Ser Leu Ile
 50 55 60
 Arg Asn Thr Ile Met Glu Cys Gln Val Cys Gly Pro Gln Pro Gln Pro
 65 70 75 80
 Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro
 85 90 95
 Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys Asp Glu Leu
 100 105

<210> 20
 <211> 369
 <212> DNA
 <213> Artificial Sequence
 <220>

<223> chimeric mouse TSP3-KDEL

<400> 20

aagcttacca	tgggaaagtt	caactgtggtg	gcggcggcgt	tgctgctgct	gggcgcggtg	60
cgggccgagg	gatccagcct	gggtggagac	tggtgtgggg	agcagaccaa	ggcattggtc	120
accagctca	ccctcttcaa	ccagatccta	gtggagcttc	gggacgacat	ccgagaccag	180
gtgaaggaaa	tgctactcat	ccggaacacc	atcatggagt	gtcaggtgtg	cggtccgcag	240
ccgcagccga	aaccgcagcc	gcagccgcag	ccgcagccga	aaccgcagcc	gaaaccggaa	300
ccggaaggta	ccggatcatc	agaaaaagat	gagttgtagg	cggccgcaga	attccatattg	360
catctcgag						369

<210> 21

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> chimeric Xenopus laevis TSP4-KDEL

<400> 21

Met	Gly	Lys	Phe	Thr	Val	Val	Ala	Ala	Ala	Leu	Leu	Leu	Gly	Ala
1				5					10				15	
Val	Arg	Ala	Glu	Gly	Ser	Ser	Leu	Gly	Gly	Asp	Cys	Cys	Gly	Asp
			20					25					30	Val
Ser	Arg	Gln	Leu	Ile	Gly	Gln	Ile	Thr	Gln	Met	Asn	Gln	Met	Leu
		35				40					45			Gly
Glu	Leu	Arg	Asp	Val	Met	Arg	Gln	Gln	Val	Lys	Glu	Thr	Met	Phe
	50					55				60				Leu
Arg	Asn	Thr	Ile	Ala	Glu	Cys	Gln	Ala	Cys	Gly	Pro	Gln	Pro	Gln
65				70					75					80
Lys	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Lys	Pro	Gln	Pro	Lys
			85					90					95	Pro
Glu	Pro	Glu	Gly	Thr	Gly	Ser	Ser	Glu	Lys	Asp	Glu	Leu		
			100					105						

<210> 22

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> chimeric Xenopus laevis TSP4-KDEL

<400> 22

aagcttacca	tgggaaagtt	caactgtggtg	gcggcggcgt	tgctgctgct	gggcgcggtg	60
cgggccgagg	gatccagcct	gggtggagac	tggtgtgggtg	acgtcagcag	acagttgatt	120
ggccagataa	cccaaataa	tcagatgctg	ggagagctcc	gagatgtcat	gagacagcag	180
gtgaaagaga	ccatgttctt	gagaaacacc	attgcagaat	gccaggcctg	tggcccgcag	240
ccgcagccga	aaccgcagcc	gcagccgcag	ccgcagccga	aaccgcagcc	gaaaccggaa	300
ccggaaggta	ccggatcatc	agaaaaagat	gagttgtagg	cggccgcaga	attccatattg	360
catctcgag						369

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

34
38

<210> 28
 <211> 372
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> chimeric human TSP3-KDEL

<400> 28
 aagcttacca tgggaaggta catgatttta ggcttgctcg cccttgcggc agtctgcagc 60
 gctgccaaaa aaggatccag cctgggtgga gactgttggt gggagcagac caaggcattg 120
 gtcaccagc tcacctctt caaccagatc ctagtggagc ttcgggacga catccgagac 180
 caggtgaagg aaatgtcact catccggaac accatcatgg agtgtcaggt gtgcggtccg 240
 cagccgcagc cgaaaccgca gccgcagccg cagccgcagc cgaaaccgca gccgaaaccg 300
 gaaccggaag gtaccggatc atcagaaaaa gatgagttgt aggcgggccgc agaattccat 360
 atgcatctcg ag 372

<210> 29
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chimeric human TSP4-KDEL

<400> 29
 Met Arg Tyr Met Ile Leu Gly Leu Leu Ala Ala Val Cys Ser
 1 5 10 15
 Ala Ala Lys Lys Gly Ser Ser Leu Gly Gly Asp Cys Cys Gly Asp Phe
 20 25 30
 Asn Arg Gln Phe Leu Gly Gln Met Thr Gln Leu Asn Gln Leu Leu Gly
 35 40 45
 Glu Val Lys Asp Leu Leu Arg Gln Gln Val Lys Glu Thr Ser Phe Leu
 50 55 60
 Arg Asn Thr Ile Ala Glu Cys Gln Ala Cys Gly Pro Gln Pro Gln Pro
 65 70 75 80
 Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro
 85 90 95
 Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys Asp Glu Leu
 100 105

<210> 30
 <211> 372
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> chimeric human TSP4-KDEL

<400> 30
 aagcttacca tgggaaggta catgatttta ggcttgctcg cccttgcggc agtctgcagc 60

39
 37

009999.02099900

gctgccaaaa aaggatccag cctgggtgga gactgttggtg gggactttaa ccggcagttc 120
 ttgggtcaaa tgacacaatt aaaccaactc ctgggagagg tgaaggacct tctgagacag 180
 caggttaagg aaacatcatt ttgcgaaac accatagctg aatgccaggc ttgcggtccg 240
 cagccgcagc cgaaaccgca gccgcagccg cagccgcagc cgaaaccgca gccgaaaccg 300
 gaaccggaag gtaccggatc atcagaaaaa gatgagttgt aggcggccgc agaattccat 360
 atgcattctg ag 372

<210> 31
 <211> 8
 <212> PRT
 <213> unknown

<400> 31
 Tyr Thr Ser Glu Lys Asp Glu Leu
 1 5

<210> 32
 <211> 8
 <212> PRT
 <213> unknown

<400> 32
 Leu Asn Tyr Phe Asp Asp Glu Leu
 1 5

<210> 33
 <211> 9
 <212> PRT
 <213> unknown

<400> 33
 Cys Asp Cys Arg Gly Asp Cys Phe Cys
 1 5

<210> 34
 <211> 134
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KDEL/myc

<400> 34
 Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala
 1 5 10 15
 Val Arg Ala Glu Gly Ser Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
 20 25 30
 Tyr His Pro Asn Ser Thr Cys Gly Ser Ser Leu Gly Gly Asp Cys Cys
 35 40 45
 Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln Asp
 50 55 60

39
 38

00300.04096960

Val Arg Glu Leu Leu Arg Gln Gln Val Lys Glu Ile Thr Phe Leu Lys
65 70 75 80
Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Pro Ala Arg Thr
85 90 95
Pro Gly Thr Ser Pro Gln Pro Gln Pro Lys Pro Gln Pro Gln Pro Gln
100 105 110
Pro Gln Pro Lys Pro Gln Pro Lys Pro Glu Pro Glu Gly Thr Gly Ser
115 120 125
Ser Glu Lys Asp Glu Leu
130

<210> 35
<211> 444
<212> DNA
<213> Artificial Sequence

<220>
<223> KDEL-myc

<400> 35
aagcttacca tgggaaagtt cactgtggtg gcggcggcgt tgctgctgct gggcgcggtg 60
cgggccgagg gatccgaaca aaaacttatt tctgaagaag acttgtagca cccaaactca 120
acatgcggat ccagcctggg tggagactgt tgtccacaga tgcttcgaga actccaggag 180
actaatgcgg cgctgcaaga cgtgagagag ctcttgcgac agcaggtcaa ggagatcacc 240
ttcctgaaga atacggtgat ggaatgtgac gcttgcgga tgcagcccgac acgcaccccc 300
ggtactagtc cgcagccgca gccgaaaccg cagccgcagc cgcagccgca gccgaaaccg 360
cagccgaaac cggaaccgga aggtaccgga tcatcagaaa aagatgagtt gtaggcggcc 420
gcagaattcc atatgcatct cgag 444

<210> 36
<211> 10
<212> PRT
<213> human myc tag

<400> 36
Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1 5 10